

10. TECHNICAL DATA

	DS2-05-07-xxx-JV	DS2-05-25-xxx-JV
Power supply:	24 Vdc $\pm$ 20%	
Consumption of emitter unit:	250 mA max without load	
Outputs:	1 switching output; load max 10 k Ω load min 100 Ω 1 analogue output ; 0-10 V (ΔV_{max} 2%)	
Output current on switching output:	100 mA; short-circuit protection	
Output voltage on switching output:	-1.5 Vmax of the power supply at T=25°C	
Response time:	See table "Response time" below	
Emission type:	Infrared (880 nm)	
Resolution:	12 mm	35 mm
Relative measurement precision:	$\pm$ 6 mm	$\pm$ 22.5 mm
Absolute measurement precision:	6 mm	22.5 mm
Dimensional difference between objects equally detected in absolute Teach-in:	$\pm$ 6 mm	$\pm$ 22.5 mm
Dimensional difference between objects equally detected in relative Teach-in:	Δ = 12 mm	Δ = 45 mm
Operating distance:	0.3 $\div$ 5 m	0.3 $\div$ 10 m
Available functions:	See previous sections	
Operating temperature:	0 ... + 50 °C	
Storage temperature:	- 25...+ 55 °C	
Electrical protection:	Class I	
Mechanical protection:	IP 65 (EN 60529)	
Vibrations:	0.5 mm width, 10 ... 55 Hz frequency, (EN 60068-2-6)	
Shock resistance:	11 ms (30 G) 6 shock for each axis (EN 60068-2-27)	
Housing material:	Painted aluminium (Pulverit 5121/0085 Black)	
Lens material:	PMMA	
Connections:	M12 4-poles connector for TX M12 8-poles connector for RX	
Weight:	Min. 1.9 kg – Max. 4.6 kg	

10.1. Response time

	Tmin (msec)							Tmax (msec)
		T2	T3	T4	T5	T6	T7	
Model	Configuration							
	Top beam 57600 baud binary	Top beam 9600 baud binary	Top beam 57600 baud ASCII	Top beam 9600 baud ASCII	Complete Beams Status binary	Complete Beams Status Binary	Complete Beams Status ASCII	Complete Beams Status ASCII
DS2-05-07-015-JV	5.5	12.5	5.5	13	5.5	15	6.5	10
DS2-05-07-030-JV	7	14	7	14.5	7	18	8.5	21
DS2-05-07-045-JV	8.5	15.5	8.5	16	8.5	21	10	24
DS2-05-07-060-JV	10	17	10	18	10	26	12	38
DS2-05-07-075-JV	11.5	18.5	11.5	19	11.5	31	15	44
DS2-05-07-090-JV	13	20	13	20	13	36	17	54
DS2-05-07-105-JV	14.5	21.5	14.5	22	14.5	40	19	62
DS2-05-07-120-JV	17	24	17	24	17	44	21	70
DS2-05-07-135-JV	18.5	25	19	26	19	48	23	80
DS2-05-07-150-JV	20	26.5	21	28	21	53	25	84
DS2-05-07-165-JV	22	28	23	30	23	56	28	91
DS2-05-25-045-JV	5	11	5	11	5	13	6	18
DS2-05-25-060-JV	5.5	12	5.5	12.5	5.5	14.5	6.5	19.5
DS2-05-25-075-JV	6	13	6	13.5	6	16	7	21
DS2-05-25-090-JV	6.5	13.5	6.5	14.5	6.5	17.5	7.5	22.5

11. LIST OF AVAILABLE MODELS

Model	Optics interaxis (mm)	h1 Length of controlled area (mm)	a x b (mm)	h (mm)	N°. beams
DS2-05-07-015-JV	6.75	147	35 x 40	256	21
DS2-05-07-030-JV	6.75	294	35 x 40	403	42
DS2-05-07-045-JV	6.75	441	35 x 40	550	63
DS2-05-07-060-JV	6.75	588	35 x 40	697	84
DS2-05-07-075-JV	6.75	735	35 x 40	844	105
DS2-05-07-090-JV	6.75	882	35 x 40	991	126
DS2-05-07-105-JV	6.75	1029	35 x 40	1138	147
DS2-05-07-120-JV	6.75	1176	35 x 40	1285	168
DS2-05-07-135-JV	6.75	1323	35 x 40	1432	189
DS2-05-07-150-JV	6.75	1470	35 x 40	1579	210
DS2-05-07-165-JV	6.75	1617	35 x 40	1726	231
DS2-05-25-045-JV	25	453	35 x 40	562	18
DS2-05-25-060-JV	25	604	35 x 40	713	24
DS2-05-25-075-JV	25	755	35 x 40	864	30
DS2-05-25-090-JV	25	912	35 x 40	1015	36

12. OVERALL DIMENSIONS

All the values are in mm.

